3D ROBOT WATERJET CUTTING CELL

PARTICULARLY DESIGNED FOR WATERJET 3D TRIMMING

Versatile and flexible, adapts to all processes.

The robot cells for 3D cutting of the WJn series combine extensive DESMASA´s experience in automation, robotics and high pressure, offering a complete solution for the process [Cell, Intensifier pump, Software, Programming, Accessories…]

General characteristics:

- Able to cut a wide variety of soft materials and formats larger than 2,500 x 1,500 x 500 mm (*) (Customizable work area, as required).
- Doors on 1 or 2 sides of the machine.
- Advanced safety system: Volumetric scanner, Dual Check Safety Software and Safety PLC.
- Abrasive or pure water.

Structure:

- Compact, Integrated equipment with small footprint.
- High speed acoustic doors.
- Soundproofed cell.

Robots:

- ABB, Fanuc, Kuka, Yaskawa, Stäubli...
- Repetition ISO 9283: +-0,03mm (*)
- Cutting speeds above 500mm/s (*) (Robots speed 2,000mm/s)(*)

Software:

- Technology 4.0, Offline Programming, Desmasa Advanced-cutting-software, Calibration Tool, Straightforward intuitive handling with 10” Colour HMI, Quick, simplified programming, Customization options.

Options:

- Customizable cutting tables, cyclone suction systems…

(*) Depending on models and conditions.

www.desmasa.com
info_web@desmasa.com

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ROBOTIZATION AND CONTROL EQUIPMENT

FANUC ABB KUKA YASKAWA STÄUBLI

ACCESSORIES

HIGH PRESSURE INTENSIFIER

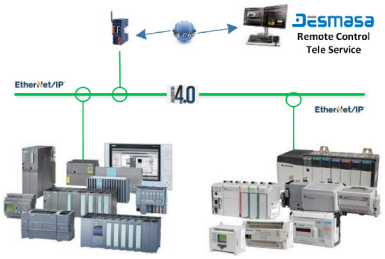
Design Pressure: 4,200 bar.
- Simple
- Redundant
- Dual

50HP/4K
100HP/4K
Option “Energy Efficient”

CYCLONE – VACUUM SYSTEM

SUPERVISION AND SERVICES

Equipment monitoring through remote connection from our facilities.

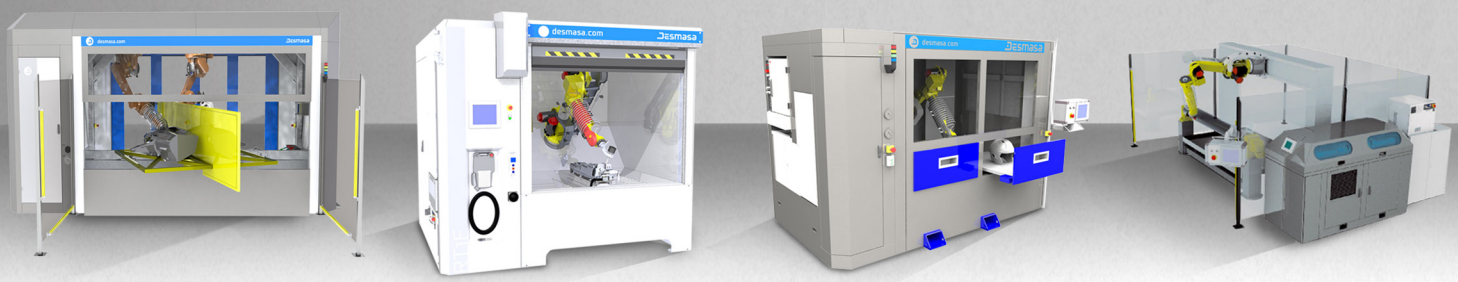


SIEMENS ALLEN BRADLEY

DESMASA offers a complete solution Cell, Intensifier Pump, Software, Programming, Accesories...

POSSIBLE CONFIGURATIONS (CUSTOMIZABLE)

ROTATING TABLE COMPACT WITH DUAL LOADER ROBOT TRACKING WITH 7th AXIS



C/ Condado de Treviño, 87
Pol. Ind. Villalonquéjar
09001 Burgos (España)
Tel: +34 947 470 940
Fax: +34 947 482 301

Siguenos en:

YouTube
LinkedIn

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